



The vegetation in the area is diverse, primarily mixed woods with White spruce, Aspen, Balsam Poplar, Lodgepole Pine and Paper Birch; lake edge with Willows and emergents; and some tamarack/black spruce/sphagnum bogs.



Medicine Lake, 6 Aug 2003. Tamarack/Black Spruce/Labrador Tea/Big Birch/Sphagnum bog.



Wet woods with White Birch beside Medicine Lake, 12 Jul 2009.

PERIODS OF STUDY

The Lepidoptera of the area was studied on 13 different days (30 trap nights) from June 27 to August 15 in the years 2003, 2004, 2006, 2008, 2009, 2010 and 2011 (see Appendix). All collected specimens were databased and information on most is available on the Virtual Museum website of the University of Alberta Strickland Museum (<http://www.entomology.ualberta.ca/>). No collections were made in the spring or fall and thus many species remain to be documented.

SPECIMEN DISPOSITION

All specimens collected by the writer presently reside in his collection but most will eventually go to the University of Alberta Strickland Museum (UASM), and some will be deposited in the Canadian National Collection (CNC) in Ottawa and the Northern Forest Research Centre (NFRC) in Edmonton. All specimens have been databased and the information on verified material can be viewed at <http://www.entomology.ualberta.ca/searching.php>.

THE FOLLOWING CHECKLIST

Pohl et al (2010) have put together an up-to-date annotated list of the Lepidoptera of Alberta. They include 2367 species, many more than those mentioned by Bowman (1951). This list incorporates

recent changes in taxonomy of all groups according to various literature sources, including those listed for the Noctuoidea by Lafontaine & Schmidt (2010). In previous reports, the order and terminology, were that of the “Check List of the Lepidoptera of America North of Mexico” (1983) edited by R.W. Hodges. The species order and taxonomy in this report is that of Pohl et al (2010) followed by that in Hodges (1983). Common names are mentioned in those cases where such names are known.

While most of the larger (macro) are relatively well known, the same cannot be said for many of the smaller ones (micros). Identifications, especially of the latter, can be difficult or are at present impossible, until such time as revisionary studies are made. Also, genitalic dissection and examination is necessary for positive identification in some groups. For these reasons, some of the determinations found herein should be regarded as tentative. The scientific names of the species are followed by the day-month-year of the collection and the number of individuals mounted; an “SR” indicates a sight record. Common names are mentioned in those cases where such names exist.

TINEIDAE – Clothes Moths and others

Tineidae, Tineinae

44. *Tinea irrepta* Braun (399. *Tinea irrepta* Braun) – 22B-VII-2006 1 and 12C-VII-2009 1.
 47. *Nideitinea orleansella* (Cham.) (412. *Nideitinea orleansella* (Cham.)) - 22B-VII-2006 1.
 51. *Monopis spilotella* Teng. (421. *Monopis spilotella* Tengström) – 5-VIII-2003 1, 2-VIII-2004 3, 21C-VII-2006 2, 15A-VIII-2008 2 and 15B-VIII-2008 1.

GRACILLARIIDAE – Gracillariid Moths

Gracillariidae, Gracillariinae

66. *Caloptilia alnivorella* (Cham.) (587. *Caloptilia alnivorella* (Cham.)) (Alder Leafminer) - 21C-VII-2006 1, 22A-VII-2006 1, 11C-VII-2009 1, 12B-VII-2009 1, 27C-VI-2010 2 and 27D-VI-2010 1.
 77. *Caloptilia strictella* (Wlk.) (640. *Caloptilia strictella* (Wlk.)) - 15B-VIII-2008 1.
 82. *Parornix conspicuella* (Dietz) (669. *Parornix conspicuella* (Dietz)) - 22A-VII-2006 1 and 27D-VI-2010 1.

Gracillariidae, Lithocolletinae

- Phyllonorycter* spp. (*Phyllonorycter* spp.) – 11B-VII-2009 1, 12B-VII-2009 1, 12C-VII-2009 2 and 3-VII-2011 1.
 85. *Phyllonorycter apparella* (H.-S.)? (798. *Phyllonorycter tremuloidella* (Braun)?) (Aspen Leaf-blotch Miner Moth) - 22B-VII-2006 1.

ARGYRESTHIIDAE – Argyresthiid Moths

Yponomeutidae, Argyresthiinae

101. *Argyresthia oreasella* (Clem.) (2467. *Argyresthia oreasella* (Clem.)) (Cherry Shoot Borer Moth) - 21C-VII-2006 1, 22B-VII-2006 1 and 15B-VIII-2008 1.
 103. *Argyresthia pygmaeella* (Hbn.) 2474. *Argyresthia pygmaeella* (Hbn.) - 2-VIII-2004 1 and 22B-VII-2006 1.

PLUTELLIDAE – Plutellid Moths

104. *Ypsolopha canariella* (Wlsm.) (2371. *Ypsolopha canariella* (Wlsm.)) (Canary Ypsolopha Moth) - 5-VIII-2003 1 and 7-VIII-2003 1.
113. *Plutella vanella* Wlsm. (2365. *Plutella vanella* Wlsm.) - 5-VIII-2003 2, 2-VIII-2004 1, 21B-VII-2006 1, 21C-VII-2006 1, 22A-VII-2006 1, 15A-VIII-2008 1 and 15B-VIII-2008 1.
114. *Plutella xylostella* (L.) (2366. *Plutella xylostella* (L.)) (Diamondback Moth) - 5-VIII-2003 1, 6-VIII-2003 2 and 7-VIII-2003 1.

ELACHISTIDAE – Concealer Moths

Elachistidae, Depressariinae

130. *Agonopterix gelidella* (Bsk.) (855. *Agonopterix gelidella* (Bsk.)) - 5-VIII-2003 2 and 7-VIII-2003 1.
135. *Agonopterix canadensis* (Bsk.) (878. *Agonopterix canadensis* (Bsk.)) (Canadian Agonopterix) - 21C-VII-2006 1 and 27B-VI-2010 1.
138. *Agonopterix argillacea* (Wlsm.) (889. *Agonopterix argillacea* (Wlsm.)) - 15A-VIII-2008 1.
143. *Depressariodes ciniflonella* (Lienig & Zell.) (908. *Depressariodes ciniflonella* (Lienig & Zell.)) - 7-VIII-2003 1 and 2-VIII-2004 1.
145. *Bibarrambla allenella* (Wlsm.) (911. *Bibarrambla allenella* (Wlsm.)) (Bog Bibarrambla Moth) – 11C-VII-2009 1, 12C-VII-2009 1 and 27D-VI-2010 1.

OECOPHORIDAE – Oecophorid Moths

Oecophoridae, Oecophorinae

193. *Polix coloradella* (Wlsm.) (1058. *Polix coloradella* (Wlsm.)) (The Skunk Moth) – 27D-VI-2010 1.

COLEOPHORIDAE – Casebearer Moths

Coleophoridae, Momphinae

- Mompha* spp. - 2-VIII-2004 1.
224. *Mompha albapalpella* (Cham.) 1423. *Mompha albapalpella* (Cham.) - 21B-VII-2006 1 and 21C-VII-2006 1.

Coleophoridae, Coleophorinae

- Coleophora* spp. - 15A-VIII-2008 2, 11B-VII-2009 1, 12C-VII-2009 4 and 27C-VI-2010 1. These specimens are with Dr. J-F Landry who is working on a Monograph of the genus.

COSMOPTERIGIDAE – Cosmopterigid Moths

Cosmopterygidae, Cosmopteryginae

241. *Limnaecia phragmitella* Staint. (1515. *Limnaecia phragmitella* Staint.) (Shy Cosmet Moth) - 21C-VII-2006 1.

GELECHIIDAE – Gelechiid Moths

indet Gelechiids - 5-VIII-2003 4, 7-VIII-2003 2, 2-VIII-2004 3, 21B-VII-2006 4, 21C-VII-2006 1, 22A-VII-2006 2, 15A-VIII-2008 2, 11C-VII-2009 2, 12B-VII-2009 1, 12C-VII-2009 4, 27D-VI-2010 1 and 4B-VII-2011 1. Little is known about many of the species in this family and it may be many years before some of these specimens are determined or even described.

Gelechiidae, Gelechiinae

- Aristotelia* sp. (*Aristotelia* sp.) - 15B-VIII-2008 1.
 248. *Aristotelia devexella* Braun (1734. *Aristotelia devexella* Braun) - 22B-VII-2006 1.
 282. *Gelechia lynceola* Zell. (1946. *Gelechia lynceola* Zell.) - 21C-VII-2006 1 and 22B-VII-2006 1.
 300. *Chionodes psiloptera* (B. & Bsk.) (2111. *Chionodes psilopterus* (B. & Bsk.)) - 2-VIII-2004 1, 21C-VII-2006 3 and 22A-VII-2006 1.
 310. *Chionodes sattleri* Hodges (2069.11. *Chionodes sattleri* Hodges) - 21B-VII-2006 1, 21C-VII-2006 2, 22A-VII-2006 1, 11C-VII-2009 1, 12C-VII-2009 1 and 27C-VI-2010 1.
 317. *Filatima abactella* (Clarke) (2127. *Filatima abactella* (Clarke)) – 27D-VI-2010 1 and 4C-VII-2011 1.
 349. *Anacampsis fragariella* Bsk. (2235. *Anacampsis fragariella* Bsk.) - 2-VIII-2004 1 and 22B-VII-2006 1.
 351. *Anacampsis niveopulvella* (Cham.) (2243. *Anacampsis niveopulvella* (Cham.)) - 5-VIII-2003 1 and 15A-VIII-2008 1.

Gelechiidae, Dichomeridinae

354. *Helcystogramma fernaldella* (Bsk.) (2267. *Brachmia fernaldella* (Bsk.)) – 27C-VI-2010 1 and 27D-VI-2010 1.
 360. *Dichomeris levisella* Fyles (2300. *Dichomeris levisella* Fyles) - 2-VIII-2004 1.

SESIIDAE – Sesiid Moths

Sesiidae, Sesiinae, Synanthedonini

376. *Synanthedon fatifera* Hodges (2555. *Synanthedon fatifera* Hodges) (Lesser Viburnum Clearwing Moth) - 23-VII-2006 1.

CHOREUTIDAE – Choreutid Moths

Choreutidae, Choreutinae

401. *Choreutis diana* (Hbn.) (2651. *Choreutis diana* (Hbn.)) (Diana's Choreutis Moth) - 6-VIII-2003 1, 21C-VII-2006 1 and 22B-VII-2006 2.

TORTICIDAE – Tortricid Moths

Tortricidae, Tortricinae, Tortricini

403. *Acleris albicomana* (Clem.) (3502. *Croesia albicomana* (Clem.)) - 5-VIII-2003 1, 2-VIII-2004 1, 21C-VII-2006 2, 22A-VII-2006 1, 22B-VII-2006 1, 15A-VIII-2008 1 and 15B-VIII-2008 1.
404. *Acleris curvalana* (Kft.) (3504. *Croesia curvalana* (Kft.)) - 5-VIII-2003 1, 6-VIII-2003 1 and 2-VIII-2004 4.
431. *Acleris variana* (Fern.) 3548. *Acleris variana* (Fern.) (Black-headed Budworm Moth) - 15A-VIII-2008 2 and 15B-VIII-2008 1.

Tortricidae, Tortricinae, Cnephagini

466. *Eana argenatana* (Cl.) (3568. *Eana argentana* (Cl.)) – 27B-VI-2010 1.

Tortricidae, Tortricinae, Archipini

472. *Pandemis canadana* Kft. (3595. *Pandemis canadana* Kft.) (Green Aspen Leaf-tier Moth) - 5-VIII-2003 1, 2-VIII-2004 1, 21B-VII-2006 1, 21C-VII-2006 2, 22B-VII-2006 1, 15A-VIII-2008 1 and 15B-VIII-2008 1.
485. *Choristoneura conflictana* (Wlk.) (3637. *Choristoneura conflictana* (Wlk.)) (Large Aspen Tortrix) – 12C-VII-2009 1.
486. *Choristoneura fumiferana* (Clem.) (3638. *Choristoneura fumiferana* (Clem.)) (Spruce Budworm Moth) - 22B-VII-2006 1.
489. *Choristoneura pinus* Free. (3643. *Choristoneura pinus* Freeman) (Pitch Pine Budworm Moth) - 22A-VII-2006 1.
495. *Archips argyrospila* (Wlk.) (3648. *Archips argyrospila* (Wlk.)) (Fruit-tree Leafroller Moth) - 21C-VII-2006 3, 22B-VII-2006 1, 15A-VIII-2008 2 and 15B-VIII-2008 1.
508. *Clepsis persicana* (Fitch) (3682. *Clepsis persicana* (Fitch)) (White-triangle Tortrix Moth) - 2-VIII-2004 2, 21B-VII-2006 1, 15A-VIII-2008 1 and 12B-VII-2009 1.
509. *Clepsis clemensiana* (Fern.) (3684. *Clepsis clemensiana* (Fern.)) (Clemen's Clepsid Moth) - 2-VIII-2004 1, 21B-VII-2006 2 and 22B-VII-2006 1.
513. *Ptycholoma virescens* (Clem.) (3689. *Ptycholoma virescens* (Clem.)) - 5-VIII-2003 1 and 2-VIII-2004 1.

Tortricidae, Tortricinae, Sparganothini

518. *Sparganothis xanthoides* (Wlk.) (3706. *Sparganothis xanthoides* (Wlk.)) (Mosaic Sparganothis Moth) - 21B-VII-2006 1.
519. *Sparganothis violaceana* (Rob.) (3710. *Sparganothis violaceana* (Rob.)) - 2-VIII-2004 1.
523. *Platynota idaeusalis* (Wlk.) (3740. *Platynota idaeusalis* (Wlk.)) (Tufted Apple Bud Moth) - 15A-VIII-2008 1.

Tortricidae, Olethreutinae, Endotheniini

533. *Endothenia nubilana* (Clem.) (2743a. *Endothenia quadrimaculana nubilana* (Clem.)) - 2-VIII-2004 1.
538. *Bactra verutana* Zell. (2707. *Bactra verutana* Zell.) (Javelin Moth) - 5-VIII-2003 1.
547. *Apotomis removana* (Kft.) (2766. *Apotomis dextrana* McD.) (Green Aspen Leafroller Moth) - 21C-VII-2006 3 and 22B-VII-2006 2.
551. *Apotomis capreana* (Hbn.) (2753. *Apotomis capreana* (Hbn.)) (Sallow Apotomis Moth) - 2-VIII-2004 1, 21B-VII-2006 1, 21C-VII-2006 4, 22B-VII-2006 1, 15A-VIII-2008 2 and 15B-VIII-2008 1.

552. *Apotomis deceptana* (Kft.) (2765. *Apotomis deceptana* (Kft.)) (Deceptive Apotomis Moth) - 5-VIII-2003 1, 21C-VII-2006 1, 15A-VIII-2008 3, 15B-VIII-2008 1, 11B-VII-2009 1, 11C-VII-2009 1, 12C-VII-2009 2 and 27C-VI-2010 5.
556. *Pseudosciaphila duplex* (Wlsm.) (2769. *Pseudosciaphila duplex* (Wlsm.)) (Spotted Leafroller or Poplar Leafroller Moth) – 27D-VI-2010 1.
557. *Orthotaenia undulana* (D. & S.) (2770. *Orthotaenia undulana* (D. & S.)) (Dusky Leafroller) – 4A-VII-2011 1 and 4C-VII-2011 1.
- Olethreutes* spp. - 2-VIII-2004 2, 11C-VII-2009 1, 12B-VI-2009 2 and 12C-VII-2009 1. Many of the species in this genus are difficult to identify and require genitalic examination.
575. *Olethreutes bipartitana* (Clem.) (2848. *Olethreutes bipartitana* (Clem.)) (Divided Olethreutes Moth) - 22A-VII-2006 1 and 11C-VII-2009 1.
583. *Metendothenia separatana* (Kft.) (2860. *Hedya separatana* (Kft.)) (Pink-washed Leafroller Moth) – 12C-VII-2009 1.

Tortricidae, Olethreutinae, Enarmoniini

586. *Ancylis nubeculana* (Clem.) (3354. *Ancylis nubeculana* (Clem.)) (Little Cloud Ancylis Moth) – 12C-VII-2009 1.
587. *Ancylis subaequana* (Zell.) (3355. *Ancylis subaequana* (Zell.)) – 12C-VII-2009 1, 27C-VI-2010 1 and 3-VII-2011 1.
588. *Ancylis discigerana* (Wlk.) (3358. *Ancylis discigerana* (Wlk.)) (Yellow Birch Leaf-folder Moth) – 11B-VII-2009 1.
595. *Ancylis comptana* Frölich (3374. *Ancylis comptana* Frölich) (Strawberry Leafroller Moth) – 11C-VII-2009 1 and 27D-VI-2010 1.
596. *Ancylis apicana* (Wlk.) (3376. *Ancylis apicana* (Wlk.)) – 27D-VI-2010 2.

Tortricidae, Olethreutinae, Eucosmini

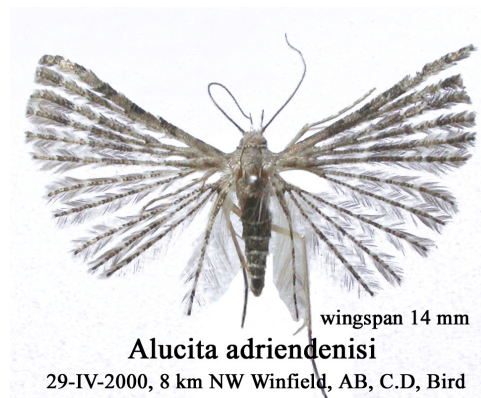
626. *Phaneta marmontana* (Kft.) (2933. *Phaneta marmontana* (Kft.)) - 5-VIII-2003 1, 22B-VII-2006 1 and 27C-VI-2010 1.
628. *Phaneta parmatana* (Clem.) (2937. *Phaneta parmatana* (Clem.)) - 5-VIII-2003 1 and 15A-VIII-2008 1.
643. *Phaneta indagatricana* (Heinr.) (2969. *Phaneta indagatricana* (Heinr.)) - 5-VIII-2003 2 and 6-VIII-2003 1.
648. *Phaneta pallidicostana* (Wlsm.) (2980. *Phaneta pallidicostana* (Wlsm.)) - 21C-VII-2006 1.
709. *Notocelia culminana* (Wlsm.) (3211. *Notocelia culminana* (Wlsm.)) - 5-VIII-2003 2, 6-VIII-2003 2, 2-VIII-2004 2, 21C-VII-2006 2 and 15B-VIII-2008 2.
714. *Gypsonoma substitutionis* Heinr. (3227. *Gypsonoma substitutionis* Heinr.) – 12C-VII-2009 1.
716. *Gypsonoma adjuncta* Heinr. (3229. *Gypsonoma adjuncta* Heinr.) – 27D-VI-2010 1 and 4C-VII-2011 1.
720. *Zeiraphera canadensis* Mut. & Free. (3240. *Zeiraphera canadensis* Mutuura & Free.) (Spruce Bud Moth) - 15A-VIII-2008 1.
723. *Zeiraphera unfortunana* Powell (3243 *Zeiraphera unfortunana* Powell) (Purple-striped Shootworm) - 15A-VIII-2008 1. This was revised from 3548 *Acleris variana* by Jason Dombroskie in 2011.
728. *Rhopobota naevana* (Haw.) (3276. *Rhopobota unipunctana* (Haw.)) (Holly Tortrix Moth, Black-headed Fireworm) - 15B-VIII-2008 1.
737. *Epinotia rectiplicana* (Wlsm.) (3302. *Epinotia rectiplicana* (Wlsm.)) – 11C-VII-2009 1, 12B-VII-2009 1 and 12C-VII-2009 1.

740. *Epinotia nisella* Cl. (3306. *Epinotia nisella* Cl.) (Variable Tortrix, Poplar Branchlet Borer Moth, Yellow-headed Aspen Leaf-tier) - 5-VIII-2003 1, 6-VIII-2003 1, 7-VIII-2003 2, 2-VIII-2004 2 and 21C-VII-2006 2.
741. *Epinotia criddleana* Kft. (3307. *Epinotia criddleana* Kft.) - 22B-VII-2006 1 and 15B-VIII-2008 1.
743. *Epinotia transmissana* (Wlk.) (3310. *Epinotia transmissana* (Wlk.)) (Walker's Epinotia) - 3-VII-2011 1 and 4B-VII-2011 1.
754. *Epinotia medioplagata* (Wlsm.) (3344. *Epinotia medioplagata* (Wlsm.)) - 22A-VII-2006 1.

Tortricidae, Olethreutinae, Grapholitini

779. *Cydia populana* (Bsk.) (3463. *Cydia populana* (Bsk.)) - 21C-VII-2006 1.
780. *Cydia flexiloqua* (Heinr.) (3465. *Cydia flexiloqua* (Heinr.)) - 21C-VII-2006 1 and 22B-VII-2006 2.
781. *Cydia nigricana* (F.) (3467. *Cydia nigricana* (F.)) (Pea Moth) - 21C-VII-2006 1.

ALUCITIDAE – Many-plume Moths



793. *Alucita adriendenisi* B. Landry & J.-F. Landry (2313. *Alucita adriendenisi* B. Landry & J.-F. Landry) (a Many-plumed Moth) - 7-VIII-2003 1 and 15A-VIII-2008 1.

PTEROPHORIDAE – Plume Moths

Indet. - 2-VIII-2004 2 and 22-VII-2006 1.

Pterophoridae, Pterophorinae, Oidaematophorini

824. *Hellinsia pectodactylus* (Staud.) (6205. *Hellinsia pectodactylus* (Staudinger)) - 12C-VII-2009 1.
833. *Oidaematophorus mathewianus* (Zell.) (6166. *Oidaematophorus mathewianus* (Zell.)) (Mathew's Plume Moth) - 21-VII-2006 1 and 22-VII-2006 1.

CRAMBIDAE – Snout Moths

Pyralidae, Epipaschiinae

858. *Pococera asperatella* (Clem.) (5606. *Tetralopha asperatella* (Clem.)) (Maple Webworm Moth) - 22B-VII-2006 1.

Pyalidae, Phycitinae, Phycitini

865. *Apomyelois bistriatella* (Hulst) (5721. *Apomyelois bistriatella* (Hulst)) - 22B-VII-2006 1.
 866. *Eulogia ochrifrontella* (Zell.) (5999. *Eulogia ochrifrontella* (Zell.)) (Broad-banded Eulogia Moth) - 5-VIII-2003 1 and 2-VIII-2004 1.
 869. *Caudellia nigrella* (Hulst) (6014. *Caudellia nigrella* (Hulst)) - 2-VIII-2004 1.
 890. *Meroptera pravea* (Grt.) 5787. *Meroptera pravea* (Grt.) (Lesser Aspen Webworm Moth) - 22B-VII-2006 1, 27C-VI-2010 2 and 27D-VI-2010 1.
 899. *Pyla aequivoca* Heinr. (5824. *Pyla aequivoca* Heinr.) - 22B-VII-2006 1.
 903. *Pyla fusca* (Haw.) (5829. *Pyla fusca* (Haw.)) (Speckled Black Pyla Moth) - 21C-VII-2006 1.
 906. *Dioryctria abietivorella* (Grt.) (5841. *Dioryctria abietivorella* (Grt.)) (Evergreen Coneworm Moth) - 15A-VIII-2008 1. Determined by Caroline Whitehouse in 2011. Both *Dioryctria abietivorella* and *D. reniculelloides* are notoriously difficult to distinguish without genitalic examination (Sopow et al. 1996)

Crambidae, Scopariinae

934. *Gesneria centuriella* (D. & S.) (4703. *Gesneria centuriella* (D. & S.)) – 12B-VII-2009 1.
 935. *Scoparia biplagiata* Wlk. (4716. *Scoparia biplagiata* Wlk.) (Double-striped Scoparia Moth) - 6-VIII-2003 1, 7-VIII-2003 1, 2-VIII-2004 2, 21B-VII-2006 1, 22A-VII-2006 1, 15A-VIII-2008 1, 15B-VIII-2008 1 and 4B-VII-2011 1.
 937. *Eudonia albertalis* (Dyar) (4727. *Eudonia albertalis* (Dyar)) - 21B-VII-2006 3 and 21C-VII-2006 1.

Crambidae, Crambinae, Crambini

948. *Chrysoteuchia topiarius* (Zell.) (5391. *Chrysoteuchia topiaria* (Zell.)) (Cranberry Girdler or Topiary Grass-veneer Moth) – 11B-VII-2009 1, 12A-VII-2009 1, 12C-VII-2009 1 and 27D-VI-2010 1.
 953. *Crambus perlella* (Scop.) (5343a. *Crambus perlellus innotatellus* Wlk.) (Immaculate Grass-veneer Moth) - 6-VIII-2003 2, 2-VIII-2004 3, 21B-VII-2006 1, 21C-VII-2006 1, 22A-VII-2006 1, 15A-VIII-2008 1, 11A-VII-2009 2, 11C-VII-2009 1 and 12A-VII-2009 1.
 956. *Crambus awemellus* McD. (5347. *Crambus awemellus* McD.) - 6-VIII-2003 2 and 15A-VIII-2008 1.
 967. *Agriphila ruficollis* (Zell.) (5399. *Agriphila ruficollis* (Zell.)) (Lesser Vagabond Sod Webworm) - 5-VIII-2003 2, 6-VIII-2003 3, 7-VIII-2003 1, 2-VIII-2004 6, 21B-VII-2006 1. 21C-VII-2006 2, 22A-VII-2006 1 and 22B-VII-2006 1.
 970. *Neodactria luteolella* Clem. (5379. *Neodactria luteolella* Clem.) (Mottled Grass-veneer Moth) – 12B-VII-2009 1.
Pediasia spp. - 6-VIII-2003 1 and 12B-VII-2009 1. These are females of either *Pediasia aridella edmontella* or *Pediasia ericella*.
 976. *Pediasia trisepta* (Wlk.) (5413. *Pediasia trisepta* (Wlk.)) (Sod Webworm Moth) - 5-VIII-2003 2 and 7-VIII-2003 1.
 978. *Pediasia ericella* (B. & McD.) (5415. *Pediasia ericella* (B. & McD.)) – 6-VIII-2003 1.
 979. *Pediasia abnaki* Klots (5416. *Pediasia abnaki* Klots) - 21B-VII-2006 1.
 980. *Pediasia dorsipunctella* (Kft.) (5417. *Pediasia dorsipunctella* (Kft.)) - 6-VIII-2003 1, 2-VIII-2004 1 and 21B-VII-2006 1.

Crambidae, Schoenobiinae

985. Not in Pohl et al. (5316b. *Donacaula melinella albicostella* (Fern.)) (Delightful Donacaula Moth) - 6-VIII-2003 1, 2-VIII-2004 1, 21B-VII-2006 1 and 21C-VII-2006 1. Recent PhD thesis work by Edda Martinez-Caldez revealed that the present material belongs to the subspecies *albicostella*.

Crambidae, Acentropinae, Acentropini

987. *Acentria ephemerella* (Denis & Schiff.) (5299. *Acentria nivea* (Olivier)) (Denis & Schiffermüller)) (Water Veneer Moth) - 5-VIII-2003 1, 22A-VII-2006 1 and 15B-VIII-2008 1.

Crambidae, Acentropinae, Nymphulini

989. *Synclita oblitalis* (Wlk.) (4755. *Synclita oblitalis* (Wlk.)) (Waterlily Leafcutter Moth) - 6-VIII-2003 1, 2-VIII-2004 3, 21B-VII-2006 2, 22A-VII-2006 1, 22B-VII-2006 2, 15A-VIII-2008 2, 12-VII-2009 1 and 27B-VI-2010 1.

Crambidae, Acentropinae, Argyractini

991. *Petrophila kearfottalis* (B. & McD.) (4773. *Petrophila kearfottalis* (B. & McD.)) - 5-VIII-2003 1 and 29C-VII-2006 1.

Crambidae, Pyraustinae, Pyraustini

1006. *Saucrobotys fumoferalis* (Hulst) (4935. *Saucrobotys fumoferalis* (Hulst)) (Dusky Saucrobotys Moth) – 27D-VI-2010 2.
 1011. *Fumibotys fumalis* (Gn.) (4950. *Fumibotys fumalis* (Gn.)) (Mint Root Borer Moth) - 2-VIII-2004 1.
 1013. *Anania coronata* (Hufn.) (4953. *Phlyctaenia coronata* (Hufn.)) (Crowned Phlyctaenia Moth) – 11B-VII-2009 1, 12B-VII-2009 1, 12C-VII-2009 1, 27B-VI-2010 1, 27C-VI-2010 1, 27D-VI-2010 1, 4B-VII-2011 1 and 4C-VII-2011 4.
 1021. *Loxostege sticticalis* (L.) (5004. *Loxostege sticticalis* (L.)) (Beet Webworm) - 6-VIII-2003 1.

Crambidae, Pyraustinae, Spilomelini

1039. *Choristostigma plumbosignalis* (Fern.) (5128. *Choristostigma plumbosignalis* (Fern.)) - 2-VIII-2004 1 and 21C-VII-2006 1.
 1041. *Udea rubigalis* (Gn.) (5079. *Udea rubigalis* (Gn.)) (Celery Leaf-tier Moth) – 11B-VII-2009 1.
 1045. *Udea itysalis* (Wlk.) (5099. *Udea itysalis* (Wlk.)) - 5-VIII-2003 1, 22A-VII-2006 1, 22B-VII-2006 1, 11C-VII-2009 1, 12C-VII-2009 1 and 4C-VII-2011 2.

PAPILIONIDAE – Swallowtails

Papilionidae, Papilioninae, Papiliopini

1091. *Papilio canadensis* Roth. & Jord. (4176a. *Papilio canadensis* Roth. & Jordan) (Canadian Tiger Swallowtail). – 4A-VII-2011 2.

PIERIDAE – White and Sulphur Butterflies

Pieridae, Pierinae, Pierini

1113. *Pieris oleracea oleracea* Harr. (4195d. *Pieris oleracea* Harr.) (Mustard White) – 12A-VII-2009 1.

Pieridae, Pierinae, Pierini

1104. *Colias interior* Scud. (4220. *Colias interior* Scudder) (Pink-edged Sulphur) - 6-VIII-2003 2 and 21A-VII-2006 2.

LYCAENIDAE – Blue and Copper Butterflies

Lycaenidae, Lycaenini

1127. *Lycaena helloides* (Bdv.) (4262. *Lycaena helloides* (Bdv.)) (Purplish Copper) - 6-VIII-2003 1.

Lycaenidae, Polyommatainae, Polyommataini

1142. *Cupido amyntula albrighti* (Clench) (4362b. *Everes amyntula* (Bdv.)) (Western Tailed Blue) – 27A-VI-2010 2.

1151. *Aricia saepiolus amica* (Edw.) (4376. *Plebejus saepiolus* (Bdv.)) (Greenish Blue) – 11A-VII-2009 1.

NYMPHALIDAE – Fritillaries

Nymphalidae, Heliconiinae, Argynnini

1166. *Boloria bellona jenistai* Stall. & Turn. (4465b. *Boloria bellona* (Fabr.)) (Meadow Fritillary) – 27A-VI-2010 1.

1173. *Boloria chariclea grandis* (B. & Benj.) (4475. *Boloria chariclea* (Schneider)) (Purple Fritillary) - 6-VIII-2003 3, 21A-VII-2006 1 and 15-VIII-2008 1.

1182c. *Speyeria hesperis dennisi* dos Passos (4459s. *Speyeria electa lais* (Edw.)) (Northwestern Fritillary) - 6-VIII-2003 1.

Nymphalidae, Nymphalinae, Nymphalini

1190. *Nymphalis j-album* (Bdv. & Lec.) (4430. *Nymphalis j-album* (D. & S.)) (Compton's Tortoiseshell) - 21A-VII-2006 1.

Nymphalidae, Nymphalinae, Melitaeini

1208. *Phyciodes cocyta* (Cram.) (4481.1. *Phyciodes cocyta* (Cram.)) (Northern Pearl Crescent) - 6-VIII-2003 1 and 12A-VII-2009 1.

DREPANIDAE – Thyatirid and Hooktip Moths

Drepanidae, Thyatirinae, Habrosyninae

1231. *Habrosyne scripta* (Gosse) (6235. *Habrosyne scripta* (Gosse)) (The Scribe or The Lettered Habrosyne) - 21C-VII-2006 1, 22B-VII-2006 1 and 12B-VII-2009 1.
 1232. *Pseudothyatira cymatophoroides* (Gn.) (6237. *Pseudothyatira cymatophoroides* (Gn.)) (Short-cloaked Lutestring) – 11C-VII-2009 1 and 12C-VII-2009 1.

Drepanidae, Drepaninae, Drepanini

1236. *Drepana arcuata* Wlk. (6251. *Drepana arcuata* Wlk.) (Arched Hooktip) – 27C-VI-2010 1 and 27D-VI-2010 1.
 1237. *Drepana bilineata* (Pack.) (6252. *Drepana bilineata* (Pack.)) (Two-lined Hooktip) – 11C-VII-2009 1, 12B-VII-2009 1, 12C-VII-2009 2, 27D-VI-2010 1, 4B-VII-2011 1 and 4C-VII-2011 1.

Drepanidae, Drepaninae, Oretini

1239. *Oreta rosea* (Wlk.) (6255. *Oreta rosea* (Wlk.)) (Rose Hooktip) – 11C-VII-2009 1, 12B-VII-2009 1 and 12C-VII-2009 1.

URANIIDAE – Uraniid Moths

Uraniidae, Epipleminae

1240. *Callizia amorata* (Pack.) (7650. *Callizia amorata* (Pack.)) (Gray Scoopwing) - 21C-VII-2006 1, 12C-VII-2009 1 and 27D-VI-2010 1.

GEOMETRIDAE – Inchworm or Geometrid Moths

Geometridae, Larentiinae, Cidariini

1241. *Dysstroma citrata* (L.) (7182. *Dysstroma citrata* (L.)) (Dark Marbled Carpet) - 6-VIII-2003 1, 7-VIII-2003 1, 2-VIII-2004 3, 21C-VII-2006 1, 22A-VII-2006 1, 22B-VII-2006 2, 15A-VIII-2008 2, 15B-VIII-2008 1, 11B-VII-2009 1 and 12B-VII-2009 2.
 1247. *Dysstroma hersiliata* (Gn.) (7189. *Dysstroma hersiliata* (Gn.)) (Orange-barred Carpet) - 2-VIII-2004 1 and 12C-VII-2009 1.
 1252. *Eulithis propulsata* (Wlk.) (7199. *Eulithis propulsata* (Wlk.)) (Barred Yellow or Currant Eulithis) - 2-VIII-2004 1 and 15B-VIII-2008 1.
 1253. *Eulithis testata* (L.) (7201. *Eulithis testata* (L.)) (Chevron Moth) - 5-VIII-2003 1, 7-VIII-2003 1, 15A-VIII-2008 2 and 15B-VIII-2008 1.
 1255. *Eulithis flavibrunneata* (McD.) (7205. *Eulithis flavibrunneata* (McD.)) - 7-VIII-2003 1, 22B-VII-2006 1 and 15A-VIII-2008 1.
 1256. *Eulithis explanata* (Wlk.) (7206. *Eulithis explanata* (Wlk.)) (White Eulithis) - 5-VIII-2003 1, 2-VIII-2004 2, 21B-VII-2006 1, 22B-VII-2006 1, 15A-VIII-2008 1 and 15B-VIII-2008 1.
 1257. *Eulithis xylinea* (Hulst) (7207. *Eulithis xylinea* (Hulst)) (The Phoenix) - 2-VIII-2004 1, 21B-VII-2006 1, 21C-VII-2006 1, 22A-VII-2006 1, 22B-VII-2006 1 and 15A-VIII-2008 1.
 1258. *Antepirrhoe semiatrata* (Hulst) (7210. *Eustroma semiatrata* (Hulst)) (Black-banded Carpet) – 11C-VII-2009 1, 12B-VII-2009 1, 27B-VI-2010 1, 27C-VI-2010 1 and 27D-VI-2010 1.
 1260. *Ecliptopera silaceata* (D. & S.) (7213. *Ecliptopera silaceata* (D. & S.)) (Small Phoenix) - 21C-VII-2006 1 and 3-VII-2011 1.

Geometridae, Larentiinae, Hydriomenini

1267. *Hydriomena perfracta* Swett (7229. *Hydriomena perfracta* Swett) (Marbled Carpet) – 27D-VI-2010 1.
1268. *Hydriomena divisaria* (Wlk.) (7235. *Hydriomena divisaria* (Wlk.)) (Transverse-banded Looper) – 27B-VI-2010 2 and 27C-VI-2010 2.
1273. *Hydriomena furcata* (Thunb.) (7257. *Hydriomena furcata* (Thunb.)) (Common Highflyer) - 5-VIII-2003 1, 6-VIII-2003 1, 7-VIII-2003 1, 2-VIII-2004 3, 21B-VII-2006 2, 21C-VII-2006 1, 22B-VII-2006 1, 15A-VIII-2008 1, 15B-VIII-2008 1, 11B-VII-2009 1 and 3-VII-2011 2.
1279. *Rheumaptera subhastata* (Nolcken) (7294. *Rheumaptera subhastata* (Nolcken)) – 12B-VII-2009 1.
1286. *Spargania luctuata* (D. & S.) (7313. *Spargania luctuata* (D. & S.)) (White-barred Black) – 11B-VII-2009 1, 12C-VII-2009 1, 27C-VI-2010 1, 27C-VI-2010 2, 4B-VII-2011 2 and 4C-VII-2011 1.
1287. *Perizoma basaliata* (Wlk.) (7316. *Perizoma basaliata* (Wlk.)) (Twin-spot Wave) - 5-VIII-2003 1 and 2-VIII-2004 1.

Geometridae, Larentiinae, Xanthorhoini

1295. *Xanthorhoe abrasaria* (H.-S.) (7370. *Xanthorhoe abrasaria* (H.-S.)) - 2-VIII-2004 1, 12C-VII-2009 1 and 4C-VII-2011 1.
1303. *Xanthorhoe algidata* (Mösch.) (7378. *Xanthorhoe algidata* (Mösch.)) 11B-VII-2009 1 and 11C-VII-2009 1.
1304. *Xanthorhoe decoloraria* (Esper) (7384. *Xanthorhoe munitata* (Hbn.)) (American Carpet) - 5-VIII-2003 1, 6-VIII-2003 1 and 2-VIII-2004 1, 21B-VII-2006 1, 27A-VI-2010 1, 27D-VI-2010 1, 3-VII-2011 1, 4A-VII-2011 1, 4B-VII-2011 1 and 4C-VII-2011 1.
1306. *Xanthorhoe ferrugata* (Cl.) (7388. *Xanthorhoe ferrugata* (Cl.)) (Red Twin-spot) – 11C-VII-2009 1.
1308. *Epirrhoe alternata* (Müller) (7394. *Epirrhoe alternata* (Müller)) (White-banded Toothed Carpet) – 12C-VII-2009 1 and 4A-VII-2011 1.
1311. *Euphyia intermediata* (Gn.) (7399a. *Euphyia intermediata* (Gn.)) (*Euphyia unangulata*) (Sharp-angled Carpet) - 21B-VII-2006 1, 21C-VII-2006 1, 11C-VII-2009 1, 12C-VII-2009 1 and 27C-VI-2010 1.
1312. *Zenophleps alpinata* Cass. (7408. *Zenophleps alpinata* Cass.) (Wood-colored Carpet) - 5-VIII-2003 1, 2-VIII-2004 1, 21B-VII-2006 1 and 21C-VII-2006 1.

Geometridae, Larentiinae, Asthenini

1316. *Hydrelia albifera* (Wlk.) (7423. *Hydrelia albifera* (Wlk.)) (Fragile White Carpet) - 15B-VIII-2008 1.
1317. *Venusia cambrica* Curt. (7425. *Venusia cambrica* Curt.) (The Welsh Wave) – 11B-VII-2009 1, 11C-VII-2009 1, 12B-VII-2009 1 and 12C-VII-2009 1.
1319. *Venusia pearsalli* (Dyar) (7429. *Venusia pearsalli* (Dyar)) (Pearsall's Wave) – 3-VII-2011 2 and 4B-VII-2011 1.
1320. *Trichodezia albovittata* (Gn.) (7430. *Trichodezia albovittata* (Gn.)) (White-striped Black) – 27A-VI-2010 1, 27D-VI-2010 1, 4A-VII-2011 1 and 4C-VII-2011 1.

Geometridae, Larentiinae, Eupitheciini

- Eupithecia* spp. – 11B-VII-2009 1, 11C-VII-2009 2, 12B-VII-2009 6, 12B-VII-2009 2, 27B-VI-2010 1, 27C-VI-2010 2, 27D-VI-2010 2 and 4B-VII-2011 1.

Geometridae, Larentiinae, Lobophorini



Carsia sororiata, from Geometridae of Canada web site.

1372. *Carsia sororiata* (Hbn.) (7626. *Carsia sororiata* (Hbn.)) (Alpine Carpet) - 6-VIII-2003 6, 2-VIII-2004 2 and 22A-VII-2006 1. Found only in a Tamarack/Black Spruce/Labrador Tea/Bog Birch/Sphagnum bog.

1376. *Lobophora nivigerata* Wlk. (7640. *Lobophora nivigerata* Wlk.) (Two-lined Aspen Looper) – 11C-VII-2009 1, 27C-VI-2010 2 and 27D-VI-2010 1.

Geometridae, Sterrhinae, Sterrhini

1379. *Idaea rotundopennata* (Pack.) (7125. *Idaea rotundopennata* (Pack.)) (Round-winged Wave) – 11C-VII-2009 1.

Geometridae, Sterrhinae, Cosymbiini

1380. *Cyclophora pendulinaria* (Gn.) (7139. *Cyclophora pendulinaria* (Gn.)) (Pearly-grey Wave or Sweetfern Geometer) – 12C-VII-2009 1.

Geometridae, Sterrhinae, Scopulini

1386. *Scopula junctaria* (Wlk.) (7164. *Scopula junctaria* (Wlk.)) (Simple Wave) - 5-VIII-2003 1 and 12C-VII-2009 1.

1388. *Scopula frigidaria* (Mösch) (7166. *Scopula frigidaria* (Mösch.)) (Frigid Wave) – 11B-VII-2009 1, 12B-VII-2009 1 and 4B-VII-2011 1.

Geometridae, Ennomiinae, Cassymini

1405. *Nematocampa resistaria* (H.-S.) (7009. *Nematocampa resistaria* (H.-S.)) (Horned Spanworm Moth) - 5-VIII-2003 1, 7-VIII-2003 1, 2-VIII-2004 1, 21C-VII-2006 1, 22B-VII-2006 1, 15A-VIII-2008 1 and 15B-VIII-2008 1.

Geometridae, Ennomiinae, Macariini

1409. *Speranza brunneata* (Thunb.) (6286. *Itame brunneata* (Thunb.)) (Striped Ochre) - 6-VIII-2003 1 and 2-VIII-2004 3.

1410. *Speranza amboflava* (Ferg.) (6283. *Itame sulphurea* (Pack.)) (Spotted Sulphur) - 6-VIII-2003 2, 21A-VII-2006 1, 21B-VII-2006 2 and 22A-VII-2006 2.

1416. *Speranza occiduaria* (Pack.) (6279. *Itame occiduaria* (Pack.)) (Western Sulphur) – 12C-VII-2009 1.
 1421. *Speranza loricaria* (Evers.) (6290. *Itame loricaria* (Evers.)) (False Bruce Spanworm) - 2-VIII-2004 2.
 1424. *Macaria notata* (L.) (6330. *Semiothisa ulsterata* (Pears.)) – 12C-VII-2009 1 and 27C-VI-2010 1.
 1429. *Macaria signaria* (Hbn.) (6344. *Semiothisa signaria* (Hbn.) and 6346a. *Semiothisa unitaria perplexa* (McD.)) (Pale-marked Angle) – 11B-VII-2009 1, 11C-VII-2009 1 and 12C-VII-2009 1.
 1436. *Digrammia rippertaria* (Dup.) (6394. *Semiothisa hebetata* (Hulst)) - 21B-VII-2006 1 and 22B-VII-2006 1.

Geometridae, Ennomiinae, Boarmiini

1453. *Iridopsis larvaria* (Gn.) (6588. *Iridopsis larvaria* (Gn.)) (Red-tinged Carpet or Bent-line Gray) – 12B-VII-2009 1.
 1455. *Ectropis crepuscularia* (D. & S.) (6597. *Ectropis crepuscularia* (D. & S.)) (The Small Engrailed) – 3-VII-2011 1 and 4B-VII-2011 2.

Geometridae, Ennomiinae, Bistonini

1460. *Biston betularia* (L.) (6640. *Biston betularia* (L.)) (Salt-and-Pepper Moth) - 21B-VII-2006 1, 12B-VII-2009 1 and 12C-VII-2009 1.
 1463. *Hypagyrtis unipunctata* (Haw.) 6654. *Hypagyrtis unipunctata* (Haw.) (One-spotted Variant) - 22A-VII-2006 1.

Geometridae, Ennomiinae, Caberini

1472. *Cabera erythemaria* Gn. (6677. *Cabera erythemaria* Gn.) (Yellow-dusted Cream Moth) - 5-VIII-2003 1, 2-VIII-2004 1, 21B-VII-2006 1, 15A-VII-2008 2, 11B-VII-2009 1, 12B-VII-2009 1, 12C-VII-2009 1, 27C-VI-2010 1, 27D-VI-2010 1, 3-VII-2011 2, 4B-VII-2011 2 and 4C-VII-2011 1.
 1473. *Cabera variolaria* Gn. (6678. *Cabera variolaria* Gn.) (Pale-striped Willow Spanworm) - 7-VIII-2003 1, 2-VIII-2004 2, 11C-VII-2009 1 and 4C-VII-2011 1.

Geometridae, Ennomiinae, Angeronini

1482. *Euchlaena obtusaria* (Hbn.) (6726. *Euchlaena obtusaria* (Hbn.)) (Obtuse Euchlaena) – 12B-VII-2009 1 and 12C-VII-2009 1.
 1487. *Xanthotype urticaria* Swett (6740. *Xanthotype urticaria* Swett) – 12B-VII-2009 1 and 4B-VII-2011 1.

Geometridae, Ennomiinae, Azelini

1490. *Pero morrisonaria* (Hy. Edw.) (6755. *Pero morrisonaria* (Hy. Edw.)) (Lesser Umber) – 11C-VII-2009 1, 27C-VI-2010 1, 27D-VI-2010 1 and 4C-VII-2011 1.

Geometridae, Ennomiinae, Campaeini

1494. *Campaea perlata* (Gn.) (6796. *Campaea perlata* (Gn.)) (Pale Beauty or Fringed Looper Moth) - 5-VIII-2003 1, 7-VIII-2003 1, 2-VIII-2004 1, 21B-VII-2006 1 and 22B-VII-2006 1.

Geometridae, Ennomiinae, Ennomini

1495. *Ennomos magnaria* Gn. (6797. *Ennomos magnaria* Gn.) (Maple Spanworm) - 21C-VII-2006 1.

Geometridae, Ennomiinae, Anagogini

1503. *Metanema inatomaria* Gn. (6819. *Metanema inatomaria* Gn.) (Pale Metanema) – 11C-VII-2009 1, 12B-VII-2009 1, 12C-VII-2009 1, 27C-VI-2010 1, 27D-VI-2010 2 and 4C-VII-2011 1.

1504. *Metanema determinata* (Wlk.) (6820. *Metanema determinata* Wlk.) (Dark Metanema) – 27B-VI-2010 1 and 27C-VI-2010 1.

1506. *Metarranthis duaria* (Gn.) (6822. *Metarranthis duaria* (Gn.) (Ruddy Metarranthis)) – 27D-VI-2010 1.

1507. *Probole alienaria* (H.-S.) (6837. *Probole alienaria* (H.-S.)) – 11B-VII-2009 1.

Geometridae, Ennomiinae, Ourapterygini

1522. *Sicya macularia* (Harr.) (6912. *Sicya macularia* (Harr.)) (Pink-bordered Yellow) - 5-VIII-2003 1, 7-VIII-2003 2, 2-VIII-2004 3, 21B-VII-2006 1, 21C-VII-2006 1, 22A-VII-2006 1, 22B-VII-2006 2 and 15A-VIII-2008 1.

LASIOCAMPIDAE – Lappet Moths

Lasiocampidae, Lasiocampinae, Gastropachini

1536. *Phyllodesma americana* (Harr.) (7687. *Phyllodesma americana* (Harr.)) (Lappet Moth) – 27C-VI-2010 1.

Lasiocampidae, Lasiocampinae, Lasiocampini

1537. *Malacosoma disstria* Hbn. (7698. *Malacosoma disstria* Hbn.) (Forest Tent Caterpillar) - 5-VIII-2003 1, 6-VIII-2003 1, 2-VIII-2004 1, 21B-VII-2006 1, 21C-VII-2006 1 and 22A-VII-2006 1.

SATURNIDAE – Giant Silk Moths

Saturniidae, Saturniinae, Saturniini

1542. *Antheraea polyphemus* (Cram.) (7757. *Antheraea polyphemus* (Cram.)) (Polyphemus Moth) – sight record by Camp Operator in 2008.

SPHINGIDAE – Sphinx or Hawk Moths

Sphingidae, Sphinginae, Sphingini

1549. *Sphinx poecila* Steph. (7810. *Sphinx poecila* Stephens) (Poecila Sphinx) - 22B-VII-2006 1.

Sphingidae, Smerinthinae, Smerinthini

1553. *Smerinthus jamaicensis* (Drury) (7821. *Smerinthus jamaicensis* (Drury)) (Twin-spotted Sphinx) - 15A-VIII-2008 1 and 12B-VII-2009 1.

1554. *Smerinthus cerisyi* Kby. (7822. *Smerinthus cerisyi* Kby.) (One-eyed Sphinx) – 11B-VII-2009 1, 12B-VII-2009 1, 27B-VI-2010 1, 27C-VI-2010 1, 3-VII-2011 1 and 4B-VII-2011 1.

Sphingidae, Macroglossinae, Macroglossini

1570. *Hyles gallii* (Rott.) (7893. *Hyles gallii* (Rottemburg)) (Galium Sphinx or Bedstraw Hawkmoth) - 22B-VII-2006 1.

NOTODONTIDAE – Prominent Moths

Notodontidae, Pygaerinae

1572. *Clostera albosigma* Fitch) (7895. *Clostera albosigma* Fitch) (Sigmoid Prominent) - 5-VIII-2003 1, 21B-VII-2006 1, 21C-VII-2006 1, 22B-VII-2006 1, 12C-VII-2009 1, 27C-VI-2010 1, 27D-VI-2010 1 and 4B-VII-2011 1.
1574. *Clostera brucei* (Hy. Edw.) (7900. *Clostera brucei* (Hy. Edw.)) (Bruce's Chocolate-tip) – 27C-VI-2010 1 and 27D-VI-2010 1.

Notodontidae, Notodontinae, Notodontini

1576. *Pheosia rimosa* Pack. (7922. *Pheosia rimosa* Pack.) (Black-rimmed Prominent) - 22A-VII-2006 1, 22B-VII-2006 1, 11B-VII-2009 1, 12B-VII-2009 1, 27D-VI-2010 1, 3-VII-2011 1, 4B-VII-2011 1 and 4C-VII-2011 1.

Notodontidae, Notodontinae, Dicranurini

1580. *Gluphisia septentrionis* Wlk. (7931. *Gluphisia septentrionis* Wlk.) (Small Pebble or Common Gluphisia) - 22A-VII-2006 1, 11B-VII-2009 1, 12B-VII-2009 1, 27C-VI-2010 1 and 4B-VII-2011 1.
1582. *Gluphisia lintneri* (Grt.) (7934. *Gluphisia lintneri* (Grt.)) (Lintner's Pebble) – 4C-VII-2011 1.
1585. *Furcula occidentalis* (Lint.) (7939. *Furcula occidentalis* (Lint.)) (Willow Kitten) – 12B-VII-2009 1.
1586. *Furcula scolopendrina* (Bdv.) (7940. *Furcula scolopendrina* (Bdv.)) (Poplar Kitten) – 27B-VII-2010 2 and 27D-VI-2010 1.

Notodontidae, Heterocampinae

1591. *Schizura unicornis* (J.E. Sm.) (8007. *Schizura unicornis* (J.E. Smith)) (Variegated Prominent or Unicorn Caterpillar Moth) - 5-VIII-2003 1, 12B-VII-2009 1, 27D-VI-2010 1 and 4B-VII-2011 1.

EREBIDAE – Tiger Moths and others

Erebidae, Arctiinae, Lithosiini

1608. *Clemensia albata* Pack. (8098. *Clemensia albata* Pack.) (Little White Lichen Moth) - 22B-VII-2006 1.
1609. *Eilema bicolor* (Grt.) (8043. *Eilema bicolor* (Grt.)) (Bicolored Moth) - 22A-VII-2006 1.

Erebidae, Arctiinae, Arctiini

1613. *Virbia ferruginea* (Wlk.) (8123. *Holomelina ferruginea* (Wlk.)) (Rusty Holomelina) - 6-VIII-2003 2, 2-VIII-2004 1 and 21C-VII-2006 1.
1619. *Grammia virgo* (L.) (8197. *Grammia virgo* (L.)) (Virgin Tiger Moth) – 11B-VII-2009 1 and 12C-VII-2009 1.
1620. *Grammia parthenice* (W. Kby.) (8196. *Grammia parthenice* (W. Kby.)) (Parthenice Tiger Moth) - 6-VIII-2003 1, 7-VIII-2003 1 and 2-VIII-2004 1.
1631. *Platarctia parthenos* (Harr.) (8162. *Platarctia parthenos* (Harr.)) (St. Lawrence Tiger Moth) – 11C-VII-2009 1, 27C-VI-2010 1 and 27D-VI-2010 1.
1632. *Arctia caja* (L.) (8166. *Arctia caja* (L.)) (Great Tiger Moth) - 21B-VII-2006 1, 21C-VII-2006 1, 22A-VII-2006 1 and 22B-VII-2006 1.



Lophocampa maculata caterpillar, Medicine Lake, 1 Aug 2002.

1649. *Lophocampa maculata* Harr. (8214. *Lophocampa maculata* Harr.) (Spotted Tussock Moth) – caterpillar 1-VIII-2002.
1652. *Ctenucha virginica* (Esp.) (8262. *Ctenucha virginica* (Esp.)) (Virginia Ctenucha) – 11C-VII-2009 1 and 12B-VII-2009 1.

Erebidae, Herminiinae

1654. *Idia americalis* (Gn.) (8322. *Idia americalis* (Gn.)) (American Snout Moth) - 5-VIII-2003 1, 6-VIII-2003 1, 2-VIII-2004 2, 21B-VII-2006 1, 22A-VII-2006 1, 22B-VII-2006 1, 11C-VII-2009 1, 12C-VII-2009 1, 12C-VII-2009 1, 27D-VI-2010 1 and 4C-VII-2011 1.
1656. *Idia* sp. nr. *aemula* (8323.1. *Idia* sp. nr. *aemula*) - 21C-VII-2006 1.
1662. *Zanclognatha litalba* (Sm.) (8354. *Zanclognatha litalba* (Sm.)) (The Canadian Zanclognatha) - 2-VIII-2004 2.
1663. *Chytolita petrealis* Grt.) (8356. *Chytolita petrealis* Grt.) (Lesser Luteous Snout) – 11C-VII-2009 1, 12B-VII-2009 1, 12C-VII-2009 1, 27B-VI-2010 2, 27C-VI-2010 1 and 27D-VI-2010 1.
1666. *Phalaenostola metonalis* (Wlk.) (8362. *Phalaenostola metonalis* (Wlk.)) (Pale Phalaenostola or Tufted Snout) - 2-VIII-2004 7, 21A-VII-2006 1, 15A-VIII-2008 1, 15B-VIII-2008 1 and 12C-VII-2009 1.
1669. *Palthis angulalis* (Hbn.) (8397. *Palthis angulalis* (Hbn.)) (Angulated Snout Moth or Dark-spotted Palthis) – 11c-VII-2009 1 and 27B-VI-2010 1.
1671. *Rivula propinqualis* Gn. (8404. *Rivula propinqualis* Gn.) (Yellow Snout Moth) - 21C-VII-2006 2, 22B-VII-2006 1, 15A-VIII-2008 1 and 15B-VIII-2008 1.

Erebidae, Hypenodinae

1674. *Hypena deceptalis* (Wlk.) (8446. *Hypena deceptalis* (Wlk.)) - 7-VIII-2003 1 and 15B-VIII-2008 1.
 1675. *Hypena atomaria* Sm. (8450. *Bomolocha atomaria* Sm.) (Pale-banded Snout) - 21C-VII-2006 1 and 22B-VII-2006 2.
 1676. *Hypena edictalis* (Wlk.) (8452. *Bomolocha edictalis* (Wlk.)) (Large Bomolocha) - 7-VIII-2003 2.
 1679. *Hypena eductalis* (Wlk.) (8455. *Lomanaltes eductalis* (Wlk.)) (Lomanaltes Snout Moth) – 11C-VII-2009 1.
 1681. *Hyphenodes fractilinea* (Sm.) (8421. *Hyphenodes fractilinea* (Sm.)) (Broken-line Hyphenodes) - 5-VIII-2003 1, 6-VIII-2003 3, 2-VIII-2004 1, 22A-VII-2006 1, 15A-VIII-2008 1 and 15B-VIII-2008 1.

Erebidae, Erebininae, Catocalini

1705. *Catocala relictata* Wlk. (8803. *Catocala relictata* Wlk.) (White Underwing) - 7-VIII-2003 1.
 1711. *Catocala briseis* Edw. (8817. *Catocala briseis* Edw.) (Ribbed or Briseis Underwing) - 5-VIII-2003 2, 6-VIII-2003 1 and 7-VIII-2003 1.
 1713. *Catocala semirelictata* Grt. (8821. *Catocala semirelictata* Grt.) (Semirelict Underwing) - 7-VIII-2003 1.

NOCTUIDAE – Owlets, Cutworm and Noctuid Moths

Nolidae, Nolinae

1721. *Nola cilicoides* (Grt.) (8990. *Nola cilicoides* (Grt.)) (Blurry-patched Nola) - 22B-VII-2006 1.

Noctuidae, Chloephorinae, Sarrothripini

1723. *Nycteola cinereana* N. & D. (8977. *Nycteola cinereana* N. & D.) (Grey Midget) – 12B-VII-2009 1, 27B-VI-2010 1 and 27C-VI-2010 1.

Noctuidae, Plusiinae, Plusiini

1727. *Diachrysia aeroides* (Grt.) (8896. *Diachrysia aeroides* (Grt.)) (Dark-spotted Looper Moth) - 5-VIII-2003 1, 2-VIII-2004 1 and 21C-VII-2006 1.
 1735. *Autographa rubidus* Ottol. (8909. *Autographa rubida* Ottol.) (Rubida Looper Moth) – 11C-VII-2009 1, 27B-VI-2010 1, 27C-VI-2010 1 and 27D-VI-2010 1.
 1737. *Autographa bimaculata* (Steph.) (8911. *Autographa bimaculata* (Steph.)) (Two-spotted Looper Moth) - 5-VIII-2003 1, 7-VIII-2003 1, 21C-VII-2006 1 and 22B-VII-2006 1.
 1740. *Autographa californica* (Speyer) (8914. *Autographa californica* (Speyer)) (Alfalfa Looper) - 6-VIII-2003 1.
 1748. *Syngrapha viridisigma* (Grt.) (8929. *Syngrapha viridisigma* (Grt.)) (Green-marked Looper) - 5-VIII-2003 2 and 22B-VII-2006 1.
 1755. *Syngrapha alias* (Ottol.) (8939. *Syngrapha alias* (Ottol.)) (Hooked Silver Y or Spruce Climbing Cutworm Moth) - 2-VIII-2004 1, 21A-VII-2006 1 and 15A-VIII-2008 1.
 1758. *Syngrapha angulidens* (Sm.) (8943. *Syngrapha angulidens* (Sm.)) - 21C-VII-2006 1.
 1763. *Plusia putnami* Grt. (8950. *Plusia putnami* Grt.) (Putnam's Looper Moth) - 5-VIII-2003 1, 21C-VII-2006 1, 22B-VII-2006 1 and 11C-VII-2009 1.
 1765. *Plusia venusta* Wlk. (8953. *Plusia venusta* Wlk.) (White-streaked Looper Moth) - 21B-VII-2006 1.

Noctuidae, Eustrotiinae

1767. *Protodeltote albidula* (Gn.) (9048. *Lithacodia albidula* (Gn.)) (Common Midget) - 21B-VII-2006 1, 21C-VII-2006 1, 11C-VII-2009 1, 12B-VII-2009 1, 12C-VII-2009 1, 27B-VI-2010 1, 27C-VI-2010 1, 4B-VII-2011 2 and 4C-VII-2011 2.

Noctuidae, Dilobinae

1778. *Raphia frater* Grt. (9193. *Raphia frater* Grt.) (The Brother) – 27D-VI-2010 1.

Noctuidae, Acronictinae

1783. *Acronicta vulpina* (Grt.) (9206. *Acronicta leporina vulpina* (Grt.)) (Poplar Dagger Moth) – 27B-VI-2010 2.
1784. *Acronicta innotata* Gn. (9207. *Acronicta innotata* Gn.) (Unmarked Dagger Moth) – 11B-VII-2009 1, 12B-VII-2009 1 and 27D-VI-2010 1.
1787. *Acronicta grisea* (Wlk.) (9212. *Acronicta grisea* (Wlk.)) (Gray Dagger Moth) – 11C-VII-2009 1, 12B-VII-2009 1, 27B-VI-2010 2, 27C-VI-2010 1, 27D-VI-2010 1 and 4B-VII-2011 2.
1793. *Acronicta fragilis* (Gn.) (9241. *Acronicta fragilis* (Gn.)) (Fragile Dagger Moth) – 27B-VI-2010 1 and 27D-VI-2010 1.
1794. *Acronicta impleta* Wlk. (9257. *Acronicta impleta* Wlk.) (Yellow-haired Dagger Moth) – 27D-VI-2010 3.

Noctuidae, Oncocnemidinae

1837. *Sympistis badistriga* (Grt.) (10059. *Homohadena badistriga* (Grt.)) (Brown-lined Sallow) - 22B-VII-2006 1.
1838. *Sympistis dinalda* (Sm.) (10065. *Homohadena infixa* (Wlk.)) (Broad-lined Sallow)) - 7-VIII-2003 1, 2-VIII-2004 2, 21C-VII-2006 1 and 22B-VII-2006 1.
1858. *Sympistis dentata* (Grt.) (10055. *Apharetra dentata* (Grt.)) (The Toothed Apharetra) - 6-VIII-2003 1 and 21B-VII-2006 2.

Noctuidae, Heliothinae

1873. *Pyrrhia exprimens* (Wlk.) (11064. *Pyrrhia exprimens* (Wlk.)) (Purple-lined Sallow) – 4B-VII-2011 1.

Noctuidae, Noctuinae, Caradrini

1905. *Platyperigea montana* (Bremer) (9656. *Platyperigea montana* (Bremer)) (Civil Rustic) - 5-VIII-2003 1 and 6-VIII-2003 1.

Noctuidae, Noctuinae, Phlogophorini

1909. *Euplexia benesimilis* McD. (9545. *Euplexia benesimilis* McD.) (American Angle Shades) – 27C-VI-2010 1.
1910. *Phlogophora periculosa* Gn. (9547. *Phlogophora periculosa* Gn.) (Brown Angle Shades or Great Angle Shades) - 21C-VII-2006 1, 22B-VII-2006 1, 15A-VIII-2008 1 and 15B-VIII-2008 1.

Noctuidae, Noctuinae, Apameini

1924. *Apamea commoda* (Wlk.) (9359. *Apamea commoda* (Wlk.)) (Southern Quaker) - 2-VIII-2004 1.
 1927. *Apamea amputatrix* (Fitch) (9348. *Apamea amputatrix* (Fitch)) (Northern Quaker or Dusky Sallow) - 2-VIII-2004 1.
 1930. *Apamea scoparia* Mik., Must. & Laf. (9365. *Agroperina lateritia* (Hufn.)) (Red-winged Quaker) – 11B-VII-2009 1.
 1931. *Apamea cogitata* (Sm.) (9367a. *Agroperina dubitans cogitata* (Sm.)) (Ruby Quaker) - 2-VIII-2004 1, 21B-VII-2006 1, 21C-VII-2006 1, 22B-VII-2006 1 and 11C-VII-2009 1.
 1932. *Apamea inficita* (Wlk.) (9369. *Apamea inficita* (Wlk.)) (Inficita Quaker) - 2-VIII-2004 1.
 1933. *Apamea devastator* (Brace) (9382. *Crymodes devastator* (Brace)) (Glassy Cutworm Moth or Destructive Quaker) - 2-VIII-2004 1.
 1939. *Eremobina claudens* (Wlk.) (9396. *Eremobina claudens* (Wlk.)) (Alberta Quaker) - 7-VIII-2003 2.
 1950. *Photedes includens* (Wlk.) (9434. *Spartiniphaga includens* (Wlk.)) (Silver-C Borer) - 7-VIII-2003 1.
 1954. *Hypocoena inquinata* (Gn.) (9437. *Chortodes inquinata* (Gn.)) (Sordid Wainscot) - 5-VIII-2003 1, 6-VIII-2003 1, 2-VIII-2004 4 and 21B-VII-2006 1.
 1960. *Helotropha reniformis* (Grt.) (9453. *Celaena reniformis* (Grt.)) (Kidney-spotted Rustic) - 15A-VIII-2008 1.
 1962. *Amphipoea americana* (Speyer) (9457. *Amphipoea americana* (Speyer)) (American Ear Moth) - 7-VIII-2003 1.

Noctuidae, Noctuinae, Arzamini

1970. *Bellura gortynoides* Wlk. (9523. *Bellura gortynoides* Wlk.) (Water-lily Borer Moth) – 27C-VI-2010 1.

Noctuidae, Noctuinae, Xylenini

1972. *Hyppa contrasta* McD. (9579. *Hyppa contrasta* McD.) (Common Hyppa or Cranberry Cutworm) – 11C-VII-2009 1, 27D-VI-2010 1 and 4C-VII-2011 1.
 2004. *Anathix aggressa* (Sm.) (9963. *Anathix aggressa* (Sm.)) (Pale Sallow) - 2-VIII-2004 1.
 2012. *Parastichtis suspecta* (Wlk.) (9431. *Parastichtis suspecta* (Wlk.)) (Mottled Quaker) - 7-VIII-2003 1 and 15A-VIII-2008 1.
 2020. *Enargia infumata* (Grt.) (9550. *Enargia infumata* (Grt.)) (Lesser Angle-striped Sallow) - 5-VIII-2003 1, 6-VIII-2003 1, 7-VIII-2003 1 and 2-VIII-2004 4.
 2020.1. *Enargia fausta* (Schmidt) (Not in Hodges) – 2-VIII-2004 1. Described in Schmidt (2010) and reported as new to Alberta in Pohl et al 2011..
 2021. *Ipimorpha pleonectusa* (Grt.) (9555. *Ipimorpha pleonectusa* Grt.) (Even-lined Sallow) - 5-VIII-2003 1 and 15A-VIII-2008 1.

Noctuidae, Noctuinae, Tholerini

2053. *Nephelodes minians* Gn. (10524. *Nephelodes minians* Gn.) (Shaded Umber, Brown Cutworm Moth or Bronzed Cutworm Moth) - 5-VIII-2003 1, 6-VIII-2003 1 and 7-VIII-2003 1.

Noctuidae, Noctuinae, Hadenini

2074. *Polia nimbosa* (Gn.) (10275. *Polia nimbosa* (Gn.)) (Stormy Arches) – 11C-VII-2009 1, 27B-VI-2010 2, 3-VII-2011 1, 4B-VII-2011 3 and 4C-VII-2011 2.

2076. *Polia rogenhoferi* (Mösch.) (10277. *Polia rogenhoferi* (Mösch.)) (Rogenhofer's Arches) – 12C-VII-2009 1.
2083. *Lacanobia radix* (Wlk.) (10298. *Lacanobia radix* (Wlk.)) (Garden Arches) – 27B-VI-2010 1 and 4C-VII-2011 1.
2087. *Melanchra pulverulenta* (Sm.) (10294. *Melanchra pulverulenta* (Sm.)) (Powdered Arches) – 4C-VII-2011 1.
2101. *Hada sutrina* (Grt.) (10324. *Hecatera sutrina* (Grt.)) (The Cobbler) - 6-VIII-2003 1.

Noctuidae, Noctuinae, Leucaniini

2114. *Mythimna oxygala* (Grt.) (10436. *Aletia oxygala* (Grt.)) (Lesser Wainscot) - 6-VIII-2003 1, 7-VIII-2003 1, 2-VIII-2004 3, 21B-VII-2006 1, 21C-VII-2006 1, 22A-VII-2006 1, 22B-VII-2006 1 and 15B-VIII-2008 1.
2119. *Leucania commoides* Gn. (10447. *Leucania commoides* Gn.) (Comma Wainscot) - 6-VIII-2003 1.

Noctuidae, Noctuinae, Eriopygini

2143. *Lacinipolia lustralis* (Grt.) (10370. *Lacinipolia lustralis* (Grt.)) (Lustrous Arches) – 27D-VI-2010 1.
2150. *Lacinipolia renigera* (Steph.) (10397. *Lacinipolia renigera* (Steph.)) (Kidney-spotted Arches or Bristly Cutworm Moth) - 6-VIII-2003 1, 21C-VII-2006 1, 15B-VIII-2008 1, 12B-VII-2009 1 and 12C-VII-2009 1.
2152. *Lacinipolia lorea* (Gn.) (10405. *Lacinipolia lorea* (Gn.)) (Bridled Arches) - 21C-VII-2006 1, 11B-VII-2009 1, 11C-VII-2009 1, 12B-VII-2009 1, 12C-VII-2009 1, 27D-VI-2010 1, 3-VII-2011 1 and 4C-VII-2011 1.
2153. *Lacinipolia olivacea* (Morr.) (10406. *Lacinipolia olivacea* (Morr.)) (Olive Arches) - 5-VIII-2003 1, 21C-VII-2006 1 and 15A-VIII-2008 1.

Noctuidae, Noctuinae, Noctuini

2174. *Anicla tepperi* (Sm.) (10910. *Euagrotis tepperi* (Sm.)) (Black-girdled Dart) - 5-VIII-2003 1.
2176. *Actebia balanitis* (Grt.) (10923. *Protexarnis balanitis* (Grt.)) (Acorn or Bracketed Dart) - 6-VIII-2003 1.
2199. *Euxoa quebecensis* (Sm.) (10714. *Euxoa quebecensis* (Sm.)) (Quebec Dart) – 27B-VI-2010 1.
2232. *Euxoa obeliscoides* (Gn.) (10817. *Euxoa obeliscoides* (Gn.)) (Obelisk Dart) - 5-VIII-2003 1.
2271. *Euxoa ridingsiana* (Grt.) (10861. *Euxoa ridingsiana* (Grt.)) (Riding's Dart) - 6-VIII-2003 1.
2275. *Feltia herilis* (Grt.) (10676. *Feltia herilis* (Grt.)) (Master's Dart) - 5-VIII-2003 1, 7-VIII-2003 1 and 27B-VII-2006 1.
2289. *Ochropleura implecta* Laf. (10891. *Ochropleura plecta* (L.)) (Flame-shouldered Dart) - 22A-VII-2006 1, 11B-VII-2009 1, 27C-VI-2010 1 and 3-VII-2011 1.
2291. *Diarsia dislocata* (Sm.) (10918. *Diarsia dislocata* (Sm.)) (Dislocated Dart) - 2-VIII-2004 1, 21B-VII-2006 2, 27B-VI-2010 2, 27C-VI-2010 1, 27D-VI-2010 1 and 4B-VII-2011 2.
2292. *Diarsia rubifera* (Grt.) (10917. *Diarsia rubifera* (Grt.)) (Rubifera Dart) - 6-VIII-2003 1, 2-VIII-2004 1, 15B-VIII-2008 1, 11C-VII-2009 1, 12B-VII-2009 1 and 12C-VII-2009 1.
2295. *Paradiarsia littoralis* (Pack.) (10992. *Paradiarsia littoralis* (Pack.)) (Labrador Dart) - 21B-VII-2006 1 and 22A-VII-2006 1.
2296. *Hemipachnobia monochromatea* Morr. (10993. *Hemipachnobia monochromatea* Morr.) – 27C-VI-2010 1.

2301. *Cryptocala acadiensis* (Bethune) (11012. *Cryptocala acadiensis* (Bethune)) (Catocaline Dart) - 5-VIII-2003 1, 6-VIII-2003 1, 2-VIII-2004 1, 21A-VII-2006 1, 21B-VII-2006 1 and 22C-VII-2006 1.
2302. *Spaelotis clandestina* (Harr.) (10926. *Spaelotis clandestina* (Harr.)) (Clandestine Dart) - 21B-VII-2006 1 and 22B-VII-2006 1.
2304. *Eurois occulta* (L.) (10929. *Eurois occulta* (L.)) (Great Grey Dart) - 5-VIII-2003 1, 21B-VII-2006 1, 21C-VII-2006 1, 22A-VII-2006 1, 22B-VII-2006 1, 15A-VIII-2008 1, 15B-VIII-2008 1, 4B-VII-2011 1 and 4C-VII-2011 1.
2305. *Eurois astricta* Morr. (10930. *Eurois astricta* Morr.) (Great Brown Dart) - 5-VIII-2003 2, 6-VIII-2003 1, 2-VIII-2004 3, 21B-VII-2006 2, 21C-VII-2006 2, 22A-VII-2006 1, 22B-VII-2006 1 and 15A-VIII-2008 1.
2307. *Graphiphora augur* (F.) (10928. *Graphiphora augur* (Grt.)) (Soothsayer Dart) - 2-VIII-2004 1, 21C-VII-2006 2 and 22B-VII-2006 1.
2308. *Anaplectoides prasina* (D. & S.) (11000. *Anaplectoides prasina* (D. & S.)) (Green-winged Dart) - 15A-VIII-2008 1.
2310. *Aplectoides condita* (Gn.) (10999. *Aplectoides condita* (Gn.)) (Base-streaked Dart) – 27C-VI-2010 1 and 4B-VII-2011 1.
2312. *Eueretagrois perattenta* (Grt.) (11008. *Eueretagrois perattenta* (Grt.)) (Two-spot Dart) – 3-VII-2011 1 and 4B-VII-2011 1.
2313. *Xestia smithii* (Snell.) (10944. *Xestia smithii* (Snell.)) (Smith's or Spotted Clay Dart) - 2-VIII-2004 1, 21C-VII-2006 1 and 15A-VIII-2008 1.
2315. *Xestia oblata* (Morr.) (10947. *Xestia oblata* (Morr.)) (Rosy or Ruby Dart) - 21B-VII-2006 1 and 22A-VII-2006 1.
2325. *Xestia mixta* (Wlk.) (10959b. *Xestia mixta* (Wlk.)) - 21B-VII-2006 1 and 22A-VII-2006 1.
2330. *Xestia fabulosa* Fgn. (10958. *Xestia fabulosa* Fgn.) – 27C-VI-2010 1.
2333. *Coenophila opacifrons* (Grt.) (10988. *Eugraphe subrosea opaciformis* (Grt.)) (The Black-fronted Dart) - 6-VIII-2003 1, 2-VIII-2004 2, 21B-VII-2006 2 and 22A-VII-2006 1.
2335. *Agnorisma bugrai* (Koçak) (10954. *Xestia collaris* (G. & R.)) (Collared Dart) – 11C-VII-2009 1 and 12C-VII-2009 1.
2337. *Pseudohermonassa tenuicula* (Morr.) (10951. *Pseudohermonassa tenuicula* (Morr.)) (Hair-pin Dart) - 21C-VII-2006 1.
2344. *Protolampra rufipectus* (Morr.) (11004. *Protolampra rufipectus* (Morr.)) (Red-breasted Dart) - 6-VIII-2003 1, 21C-VII-2006 1 and 15B-VIII-2008 1.

SUMMARY

Two hundred and ninety-four species of moths and eight butterflies are reported from the Medicine Lake Provincial Recreation Area. If all of the unknowns were named, the actual total would be over 300. With further study and names on all of the undetermined specimens, the total would probably be over 500. To put things into perspective, Pohl et al (2010) document 2367 species of Lepidoptera for Alberta.

Of the 13 areas involved in the present study, twelve species of moths were found only in the Medicine Lake Provincial Recreation Area – *Ancylis nubeculana*, *Ancylis apicana*, *Zeiraphera unfortunatana*, *Carsia sororiata*, *Syngrapha angulidens*, *Bellura gortynoides*, *Anathix affresa*, *Polia rogenhoferi*, *Melanchra pulverulenta*, *Euxoa quebecensis*, *Hemipachnobia monochromatea* and *Xestia mixta*.

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LITERATURE CITED

- Hodges, R. A., ed. 1983. Check List of the Lepidoptera of America North of Mexico. E.W. Classey Ltd. London, and The Wedge Entomological Research Foundation. 284 pp.
- Lafontaine, J. D. & B.C. Schmidt. 2010. Annotated check list of the Noctuoidea (Insecta, Lepidoptera) of North America north of Mexico. ZooKeys 40: 1-239.
- Pohl, G. R., G. G. Anweiler, B. C. Schmidt and N. G. Kondla. 2010. An annotated list of the Lepidoptera of Alberta, Canada. ZooKeys 38: 1-549.
- Sopow, S.L., R. G. Bennett, J-F. Landry & B. Landry. 1996. Identification of the "grey" Dioryctria species of British Columbia (Lepidoptera, Pyralidae). J. Entomol. Soc. Brit. Columbia 93: 75-91.

USEFUL ONLINE INFORMATION SOURCES ON MOTHS

Information on, and illustrations of, many of our Alberta moths can be found at the Entomology Collection Search site of the E.H. Strickland Entomological Museum of the Department of Biological Sciences at the University of Alberta: <http://www.entomology.ualberta.ca/>.

Illustrations of Alberta macromoths can be found at a site put together by D. Lafontaine and J. Troubridge called "The Moths of Canada":
http://www.cbif.gc.ca/spp_pages/misc_moths/phps/mothindex_e.php.

Illustrations on many of the western American macromoths can also be found on a site put together by The Moth Photographers Group:
<http://www.origins.tv/MothPhotographersGroup/WestPlates.htm>.

D. Lynn Scott has a web site with natural photos of over 400 species of moths that she has found in Ottawa, Ontario (<http://acleris.com/dls/mothindex.html>). As many of the species also occur in Alberta, these images can be quite helpful

USEFUL BOOKS ON LEPIDOPTERA

- Acorn, J. 1993. Butterflies of Alberta. Lone Pine. 141 pp.
- Bird, C. D., G. J. Hilchie, N. G. Kondla, E. M. Pike and F. A. H. Sperling. 1995. Alberta Butterflies. Prov. Museum Alberta. 349 pp.

- Covell, Charles V., Jr. 1984. A Field guide to Moths; Eastern North America. Houghton, Mifflin Co., Boston, New York.
- Handfield, Louis. 1999. Le Guide des Papillons du Quebec. Vol. 1. Broquet, Boucherville, QC. 536 pp. + 123 pl.
- Handfield, Louis. 2011. Le Guide des Papillons du Quebec. Vol. 1. Partie 1 & 2, 1352 pp. plus 166 plates.
- Ives, W.G.H. & H.R. Wong. 1988. Tree and Shrub Insects of the Prairie Provinces. Can. Forestry Serv., Northern For. Centre, Inf. Rept. NOR-X-292.
- Layberry, R. A., P. W. Hall & J. D. Lafontaine. 1998. The Butterflies of Canada. Univ. Toronto Press. 280 pp.
- Powell, J. A. & P. A. Opler. 2009. Moths of Western North America. Univ. California Press. 369 pp.

APPENDIX

Collection dates, sites and other details

- 5 August 2003 – Unit 18, UV, aspen-alder woods beside lake, 52.749, 114.744, 950 m.
- 6 August 2003 – diurnals and 1 UV, tamarack-black spruce-labrador tea-bog birch-sphagnum, 52.750, 114.740, 992 m.
- 7 August 2003 - Unit 18, UV, aspen-alder woods beside lake, 52.749, 114.744, 950 m.
- 2A August 2004 – diurnals, mixed woods, 52.75, 114.74, 990 m.
- 2B August 2004 - diurnals and UV, tamarack/black spruce/labrador tea/bog birch/sphagnum, 52.750, 114.740, 992 m.
- 2C August 2004 – Unit 18, UV, aspen/alder woods beside lake, 52.749, 114.744, 950 m.
- 21A July 2006 – diurnals, mixed woods, 52.750,, 114.740, 990 m.
- 21B July 2006 – UV, tamarack/black spruce/labrador tea/bog birch/sphagnum, 52.750, 114.740, 992 m.
- 21C July 2006 – Unit 21, UV, aspen/alder woods beside lake, 52.749, 114.744, 950 m.
- 22A July 2006 – UV, tamarack/black spruce/Labrador tea/bog birch/sphagnum, 52.750, 114.740, 992 m.
- 22B July 2006 – Unit 21, UV, aspen/alder woods beside lake, 52.749, 114.744, 950 m.
- 23 July 2006 - Unit 21, unitrap with currant clearwing moth – *Synanthedon tipuliformis*-PB-SYTI pheromone , aspen/alder woods beside lake, 52.749, 114.744, 950 m.
- 15 August 2008 – diurnal, *Populus tremuloides*/*Populus balsamifera* woods, 52.749, 114.742, 950 m.
- 15A August 2008 – east of Unit 44, UV, wet woods with *Betula papyrifera*/*Salix*/*Picea mariana*/sphagnum near lake, 52.749, 114.742, 950 m.
- 15B August 2008 – Unit 44, UV, *Populus tremuloides*/*Populus balsamifera* woods,, 52.749, 114.742, 950 m.
- 11A July 2009 – diurnal, mixed woods, 52.75, 114.74, 900 m.
- 11B July 2009 – UV, east of Unit 43, alder/birch/white spruce/balsam poplar near lake, 52.747, 114.739, 900 m.
- 11C July 2009 – UV, beside Unit 43, aspen/white spruce woods, 52.747, 114.739, 900 m.
- 12A July 2009 – diurnal, mixed woods, 52.75, 114.74, 900 m.
- 12B July 2009 – UV, east of Unit 43, alder/birch/white spruce/balsam poplar near lake, 52.747, 114.739, 900 m.
- 12C July 2009 – UV, Unit 43, aspen/white spruce woods, 52.747, 114.739, 900 m.
- 27A June 2010 – diurnal, aspen/alder woods beside lake, 52.749, 114.744, 900 m.
- 27B June 2010 – UV, aspen/alder woods beside lake, 52.749, 114.744, 900 m.
- 27C June 2010 – UV, wet woods with *Betula papyrifera*/*Salix*/*Picea mariana*/Sphagnum beside lake, 52.749, 114.742, 900 m.
- 27D June 2010 – UV, hazelnut/aspen woods, S-facing hillside, 52.749, 114.740, 950 m.

